

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A diversity receiver comprising multiple antenna receiving branches, each of said multiple antenna receiving ~~braches-branches~~ comprising estimating means for estimating at least a receiving channel parameter, wherein a first estimating means in one branch of the multiple antenna receiving branches is operatively connected to a second estimating means in a further branch of the multiple antenna receiving ~~braches-branches~~ for using at least a part of the channel parameter estimate in the one branch as an aid for estimating at least a receiving channel parameter in the further branch.

2. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the channel parameter estimate in the one branch is used as a starting point for the channel parameter estimate in the further branch.

3. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the channel parameter estimate in the one branch provides a coarse channel parameter estimate, and wherein said coarse channel parameter estimate is used as a start for the channel parameter estimate in the further branch.

4. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the second estimating means in the further branch is operatively connected to the first estimating means in said one branch for using at least a part of the channel parameter estimate in the further branch as an aid for estimating the receiving parameter channel in said one branch.

5. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the diversity receiver has two antenna receiving branches.

6. (Previously Presented) The diversity receiver as claimed in claim 1, wherein the diversity receiver is arranged for estimating a time delay between the appearance of a certain channel parameter estimate in the various branches.

7. (Previously Presented) A mobile radio communication device provided with the diversity receiver as claimed in claim 1.

8. (Currently Amended) A method for receiving a signal comprising the acts of:

receiving the signal through multiple antenna receiving branches;

in each branch, estimating using estimating means parameters about a received channel to form channel estimation results;

exchanging the channel estimation results between a first
branch of the multiple antenna receiving branches and a second
branch of the multiple antenna receiving branches; and

using first channel estimation results about a first
received channel from the first branch in the estimating means in
the second branch as an aid for estimating parameters about a
second received channel in the second branch and forming second
channel estimation results.

9. (Cancelled).

10. (Previously Presented) The method of claim 8, wherein said
method further comprises the acts of:

estimating a delay value between a first channel parameter
in the first branch and the first channel parameter in the second
branch; and

synchronizing estimation in the branches by using the
delay value.